

AKOL'ZIN, L.Ye.; BEDILO, V.Ye.; BOROZDOV, I.A.; VINARSKIY, I.S.;
GOLOVATYUK, S.A.; NIKOLAYEV, G.P. Prinimali uchastiye:
DATSUN, N.V.; ZHEGOV, V.T.; IVANITSKAYA, S.Yu.; KOMISSAROV,
M.A.; KALINCHUK, I.G.; LISHBERGOV, V.D.; SERBERENNIKOVA, S.O.;
FILIN, V.D. DUGIN, Ye.V., otv.red.; DUKALOV, M.F., red.;
BUBYR', V.A., red.; TYUTYUNIK, Ya.I., red.; VARSHAVSKIY, I.N.,
red.; MONIN, M.I., red.; PANCHENKO, A.I., red.; BELYAYEV, F.R.,
red.; RABINKOVA, L.K., red.izd-ve; BOLDYREVA, Z.L., tekhn.red.

[Types of mine cross section] Tipovye secheniia gornykh vyrabotok. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.5. [Cross section of mines with reinforced-concrete supports and hinge-hung crossbars for l-, 2- and 3-ton railroad cars] Secheniia vyrabotok, zakreplennykh zhelezobetonnymi stoikami s sharnirno-podvesnym vekhniakom, dlia l-, 2- i 3-tonnykh vagonetok. 1960. 411 p. (MIRA 13:12)

1. Khar'kov. Gosudarstvennyy proyektnyy institut Yuzhgiproshakht. (Mine timbering)

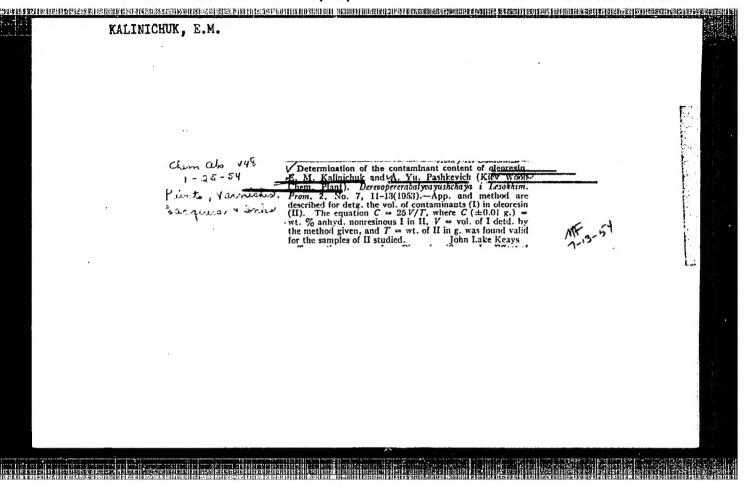
1. KALIHIGHUK, YE: PAJIWE TOW, A. WU.:	DAVELUKITE,	L.	: [G
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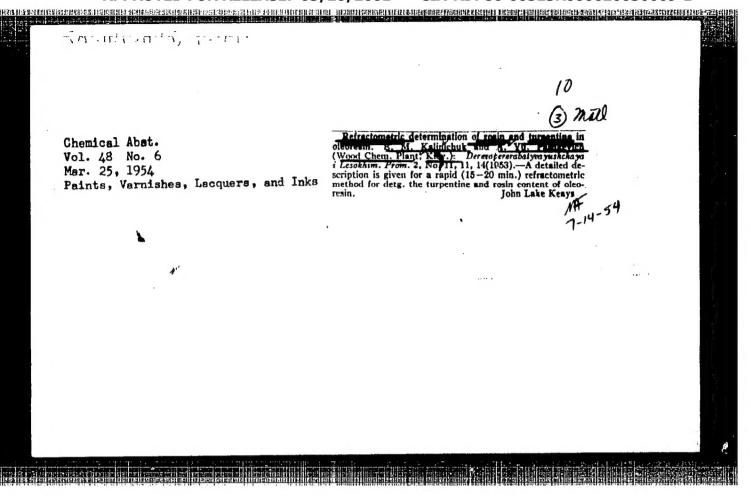
- 2. USSR (600)
- 4. Gums and Resins
- 7. Accelerating the method for producing glycerin ether of rosin. Der. i lesokhim. prom. 1 nc. 5 1952

9. Monthly List of Russian Accessions, Library of Congress arch 1953, Unclassified.

KALINICHUK, Ye.M.; MKYZIKOVA, A.Ye.

Rapid method for detection of water in turpentine. Ukrain. Khim. Zhur. 18, 76-81 '52; (CA 47 no.22:12835 '53)





VASIL'YEVA, N.G., dotsent; ANDRONIK, N.D., ispolnyayushchiy obyazannosti assistenta; KALINIK, A.A., ordinator

Osteosynthesis in fractures of the mandible using periosteal plexigals plates. Trudy Nauch.-issl.inst.stom. no.10:63-71 '62.

(MIRA 15:10)

(JAWS—FRACTURE) (PLASTICS IN MEDICINE)

KALININ, A.A., KARANOVA, G.B., KIRILLOV, I.P.

Relation between the catalytic activity of phosphate catalyst; and the conditions of their preparation. Izv. vys. ucheb. zav.; khim. 1 khim. tekh. 8 no.1:88.93 *65. (MIRA 18:6)

1. Ivanovskiy khirito-tekhnologicheskiy institut, kafedra tekhnologii neorganicheskikh veshchestv.

KALINIK, Vyacheslav Pavlovich; SHAMOV, Aleksandr Vasil'yevich; PETROV,
M.D., redaktor; VYSOTA, I.I., retsenzent; PEDOROV, V.B., retsenzent; KAN, P.M., redaktor; KRASNAYA, A.K., tekhnicheskiy redaktor.

[Training mamual for marine boiler tenders] Posobie dlia podgotovki sudovykh kochegarov. Moskva, Izd-vo "Rechnoi transport,"
1955. 163 p. (MLRA 8:10)

(Boilers, Marine)

BLYUMBERG, I.B.; ARTSISHEVSKIY, Ye.P.; KALINIKOS, A.I. Improvement of developing systems. Trudy LIKI no.3:193-196 '55. (MLRA 9:8) 1. Kafedra obshchey fotografii i tekhnologii obrabotki kimofotomaterialov.	
(CinematographyDeveloping and developers)	

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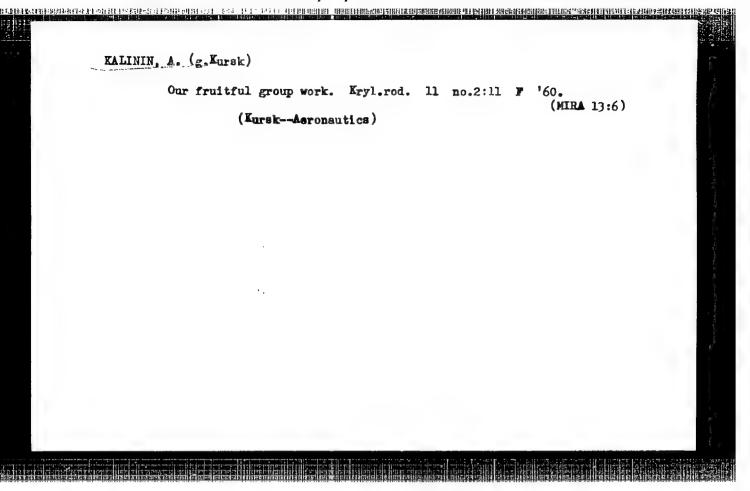
KALININ. A.; KOVALEVSKAYA, L.

Rotation of Crops

Adopting grass and field crop rotation. Kolk. proizv., 12, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

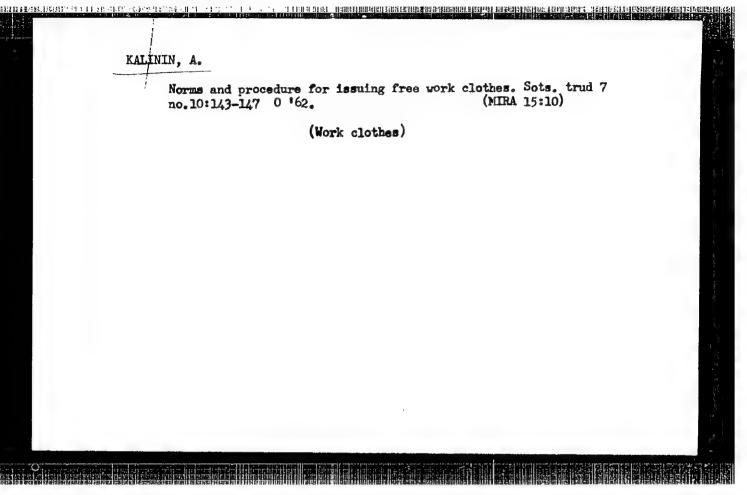
KALININ, A.	
"Stratification of tree seeds under natural conditions, Tr. From the Russian." p. 317. (Gorsko Stopanstvo. Vol. 9, no. 7, Sept. 1953. Sofiya.)	(1 ²).
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Fast European Vol. 3, No. 6 So: Monthly List of Augustum Accessions / Library of Congress,	

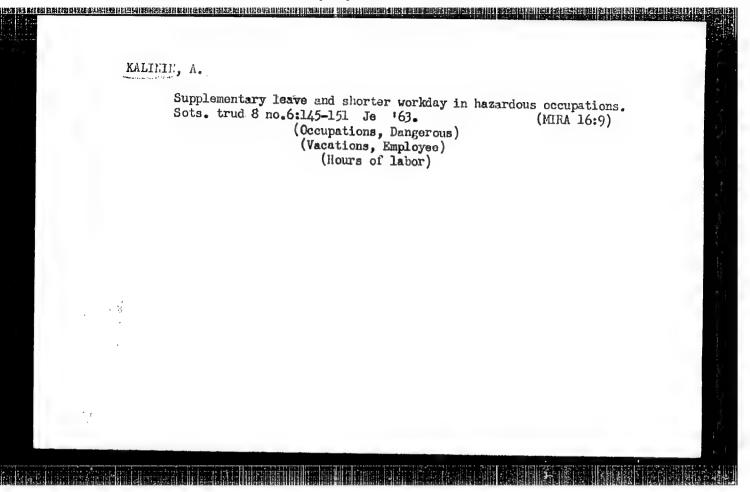


KALININ, A., mayor, voyennyy shturman pervogo klassa

Determining the deflection angle if the antenna has been stopped.
Av.i kosm. 44 no.3:87-88 *62. (MIRA 15:3)

(Radio direction finders)





KALININ, A. (poselok Mel'nichnyy Ruchey, Leningradskoy obl.); POPKOV, V., inzh. (Khar'kov); PERETS, P. (Bronnitsy, Moskovskoy obl.); KUZNETSOV, P. (Leningrad); MATVEYENKO, I., mekhanik (Alatyr'); KALINICHENKO, M. (Leningrad); IKKERT, G. (Otradnyy, Kuybyshevskoy obl.); DUDIKOV, N.; BUKANOV, A.

Readers suggest. Za rul. 21 no.7:18-19 J1 '63. (MIRA 16:8) (Motor vehicles—Technological innovations)

LOBANOV, I.A.; KALININ, A.A.

Manually operated tool for making corrugated steel ventilation outlets. Rats. i izobr. predl. v stroi. no.7:110-112 '58.

(MIRA 11:12)

1. Zaved No. 4 tresta Santekhmontash. Leningrad. (Ventilation)

Thermal stability of phosphate catalysts for vapor-phase hydration of cetylene. Izv. vys. wcheb. zav., khim i khim. tekh. 7 no.5:801-905 164 (MIRA 18:1)

l. Kafedra tekhnologii neorganicheskikh veshchestv Ivanovskogo khimiko tekhnologicheskogo instituta.

KALIMIN, A. D.

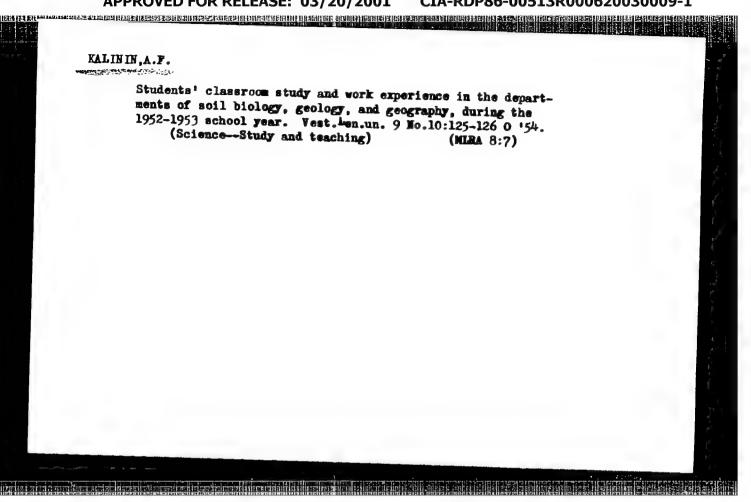
6827. Kalinin, ft. D. i Glembotskiy, Ya. L.
3500 kilogrammov moloka ot Kazhdoy korovy. (Opyt raboty markhin.
Podsobnogo khozyaystva Torgsevmorputi). Yakutsk, Yakutknigoizdat,
1954. 28 s. 20 sm. (M-vo sel'skogo khozyaystva yakut. ASSR. Uchastniki
Vskhv) 3.000 ekz. 30 k. - (55-2841) P 636.2.083 st (57.31)

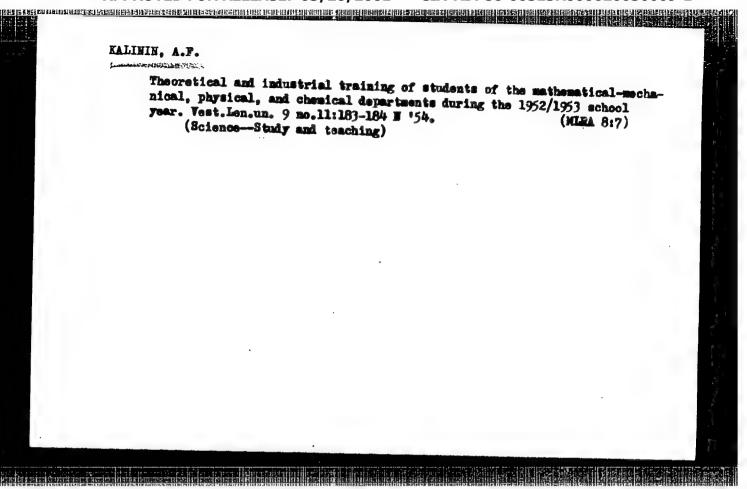
SO: Knizhnaya Letopis' No. 6, 1955

FALTHER, A. D.

9734. FALTHER, A. D. Hall by Debiliat Povymient, a Mobiciancy Produktivnosti Korov.
(12 Opyta Harthin. Ovosic o-ai veledvodeleckogo Knozydystva Glavievnosti ilova.
Yalautek, Yaluthingoizdat, 195h. 235. 20at. (Veceoyuz. O-vo po Rasprostranoniyu
Yalaut. YAZ-(5h-57663) P. 636.2.083st (57.31).

SO: Knizhnaya, Letopis, Vol. 1, 1955





AUTHOR:

Kalinin, A.G.

SOV-132-58-8-7/16

TITLE:

Prospects of Guided Drilling on Iron Ore Deposits of the Gornaya Shoriya (Perspektivy napravlennogo bureniya na zhelezorudnykh mestorozhdeniyakh Gornoy Shorii)

PERICDICAL:

Razvedka i okhrana nedr, 1958, Nr 8, pp 25-28 (USSR)

ABSTRACT:

It is known that the drilling bit tends to take a position perpendicular to inclined layers of various hardness and in consequence the bore hole deviates from the given direction. To obviate this phenomenon, two devices were constructed, one - by Volkov and Stepanov and the other - by the author. Detailed description of these devices is given. They can be used only in cases where the zenith angles are not less than 8 - loo. There are 5 diagrams.

ASSOCIATION:

(MGRI)

1. Drills-Performance 2. Drilling machines-Equipment

Card 1/1

KALININ, A.G.

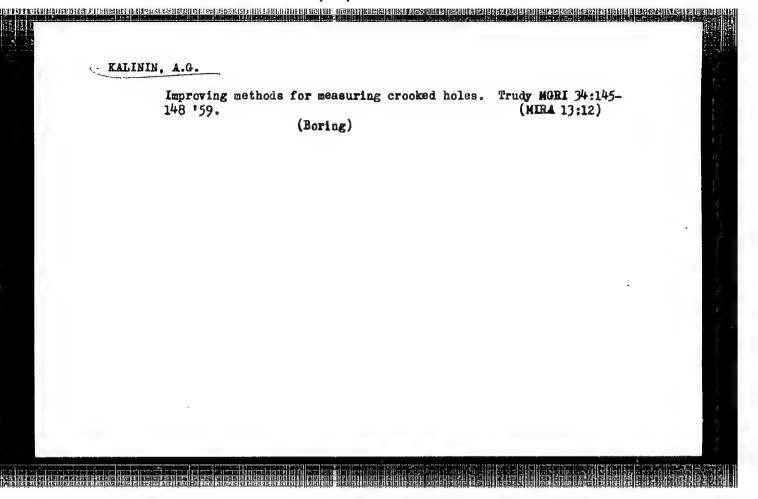
Effect of the deflection of holes on power expenditure in drilling. Izv.vys.ucheb.zav.; geol.i razv. 1 no.9:130-135 S '58. (MIRA 12:9)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze, Kafedra razvedochnogo bureniya. (Boring)

KALININ, A. G.

Engineers G. A. Agranoskiy, N. M. Levitanskaya, A. G. Kalinin (NIIAvtoprom), G. Ye. Litvin, A. A. Bulatnikov (Automobile Works imeni Likhachev) were awarded the First N. A. Minkevich Prize for the paper "Investigation and Introduction of a Standard, Controlled Atmosphere for Heat Treatment and Chemical-Heat Treatment of Steel", wherein these authors propose an original method of purification of town gas by passing it through zinc-chromium catalsts.

Results of the 1958 Competition for Obtaining imeni D. K. Chernov and imeni N. A. Minkevich Prizes, Metallovedeniye i termicheskaya obrabotka metallov, 1959, No. 6, pp 62-64



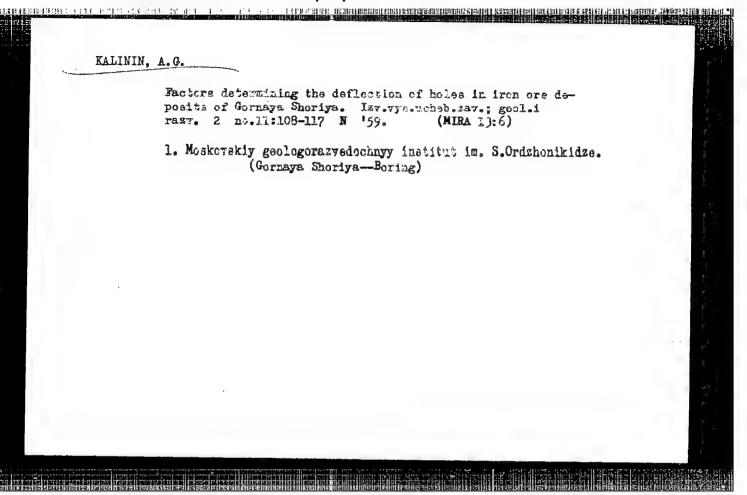
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wells in deposits of me mountainous Shoriya and methods of chesking the distortion."

Mos, 1959. 12 pp (Min of Higher Education USSR. Mos Geol Prospecting Inst im

S. Ordzhonikidze), 110 copies (KL, 41-59, 104)

-25-



KALININ, A.G.; ANDREYEV, M.M.

Minium permissible radius of curvature of boreholes. Izv. vys. ucheb. zav.; geol. i razv. 4 no.5:97-101 My °61.

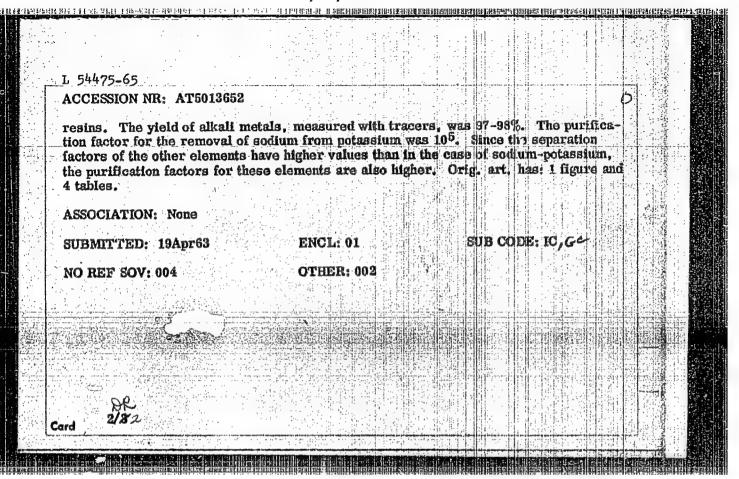
1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze. (Boring) (Blasting)

VOLKOV, Aleksandr Spiridonovich; KALININ, Anatoliy Georgivevich; BRONZOV, Anatoliy Samsonovich. Prinimal uchastiye CRICOR YEV, Yu.L., inzh.; ISAYEVA, V.V., ved. red.; POLOSINA, A.S., tekhn. red.

[Drilling pipes and their joints; a manual] Buril'nye truby i ikh soedineniia; spravochnoe rukovodstvo. Moskva, Gostoptekhizdat, 1962. 125 p. (MIRA 15:7)

(Boring machinery)

L 54475-65 EWG(1)/EWT(m)/EPF(c)/EWG(m)/EPR/EWP(t)/EWF(b) Pr-4/Ps-4/Peb DIAAP/IJP(c) RWH/JD/JG/GS/RH ACCESSION NR: AT5013652 UR/0000/65/000/000/01/18/0171 543. 53:546, 284 AUTHOR: Zasukhin, E. N.; Kalinin, A. E., Kuznetsov, R. A., Moisevev, V. V. TITLE: Radioactivation analysis of silicon dioxide by means of ion excharge chromatography. Part 2. Separation and determination of alkali metals SOURCE' AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimit. Radiokhimicheshiye metody opredeleniya mikroelementov (Radiochemical methods for determining trace elements); sbornik statey. Moscow, Izd-vo Nauka, 1965, 168-171 TOPIC TAGS: column chromatography, radioactivation analysis, silica analysis. zirconium tungstate, alkali metal separation ABSTRACT: A procedure was developed for the separation of sodium, potassium, rubidium, and cesium on zirconium tungstate sorbent (see Fig. 1 of the Euclosure) in volving an activation determination of the imparities in silicon dioxide of high purity. Radioactive tracers were used to determine the partition coefficients of alkali metal ions for the sorbent in ammonium chloride solutions of various concentrations: from these values, the separation factors of alkali metals were calculated. It was found that alkali metals are separated much better on zirconium tungstate than on digunid fon-exchange



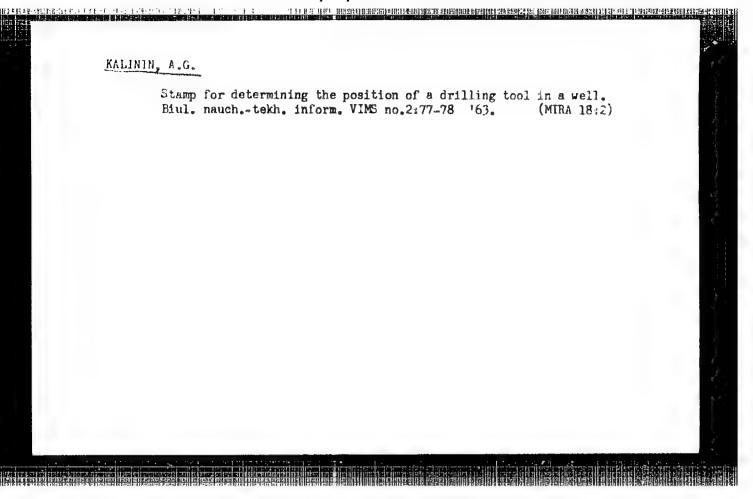
KORNEV, A. M.; KALININ, A. G.; LARIN, Yu. M.

Controlled inclined drilling of prospecting holes with small turbodrills, Rasved, i okh, nedr 28 no.6:24-27 Je 162.

(MIRA 15:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina (for Kornev). 2. TSentral'noye konstruktorskoye byuro Ministerstva geologii i okhrany nedr SSSR (for Larin).

(Turbodrills)



KALININ, Anatoliy Georgiyavich; VASIL'YEV, Yuriy Sergeyevich; BRONZOV, Anatoliy Samsonovich; SIVOKHINA, N.B., red.; LATUKHINA, Ye.I., ved. red.; POLOSINA, A.S., tekhn. red.

[Orienting deflecting drilling systems] Orientirovanie otklonialushchikh sistem v skvazhinakh. Moskva, Gostoptekhizdat, 1963. 149 p.

(Boring)

VASIL'YEV, Yuriy Sergeyevich; SIVOKHINA, Nataliya Borisovna;
BRONZOV, Anatoliy Samsonovich; KALIMIN, A.G., red.;
LATUKHINA, Ye.I., ved. red.; VORONOVA, V.V., tekhr.red.

[Tolerable declination of boreholes from the design] Dopustimye otkloneniia stvolov skvazhin ot proekta. Moskva,
Gostoptekhizdat, 1963. 152 p. (MIRA 16:10)

(Boring) (Tolerance (Engineering))

KALININ, Anatoliy Georgiyevich; VOZDVIZHENEKIY, B.1., red.; LATUKHINA, Ye.I., ved. red.; VORDNOVA, V.V., tekhn. red.

[Deflection of boreholes] Iskrivlenie burovykh skvazhin. Moskva, Gostoptekhizdat, 1963. 307 p. (MIRA 16:IL)

(Boring)

VASIL'YEV, Yu.S.; KALININ, A.C.; POPOV, V.M.

Effect of deflecting force on the extent of well deflection.

Trudy VNIIBT no.10:88-92 '63. (MIRA 17:4)

ARCNOV, Yu.A.; VASIL'YEV, Yu.S.; KALININ, A.G.

Using turbine whipstocks. Burenie no.5:21-23 '64. (MIRA 18:5)

1. Vasnoyuznyy nauchno-issledovatel'skiy institut burovoy takhniki.

to a link and applied to a set the line and a set of talmer postion to combrot oir lation ions out the inflow in oil well arilling. Ion. wys. womeb. wo .; rol. i . m. 7 no.9: 04-19. 8 162. a. Hosperskiy prologors avadeningy institut is en Ordzneribides.

VASIL'YEV, Yu.S.; KALININ, A.G.; POPOV, V.M.; LOBANOV, Yu.K.

Effect of the configuration of a slant hole on the load on the hock when lifting a tool. Trudy VNIIBT no.14:98-101 '65. (MIRA 18:5)

VASIL'YEV, Yu.S.; KALININ, A.G.; POPOV, V.M.

Relation between the loads on the hook when hoisting and lowering and the loads on the bottom in a well that is slightly crooked.

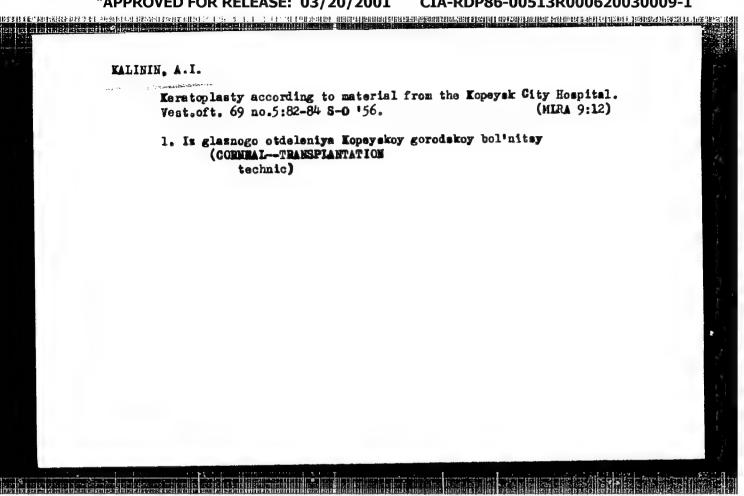
Trudy VNIIBT no.14:102-105 '65. (MIRA 18:5)

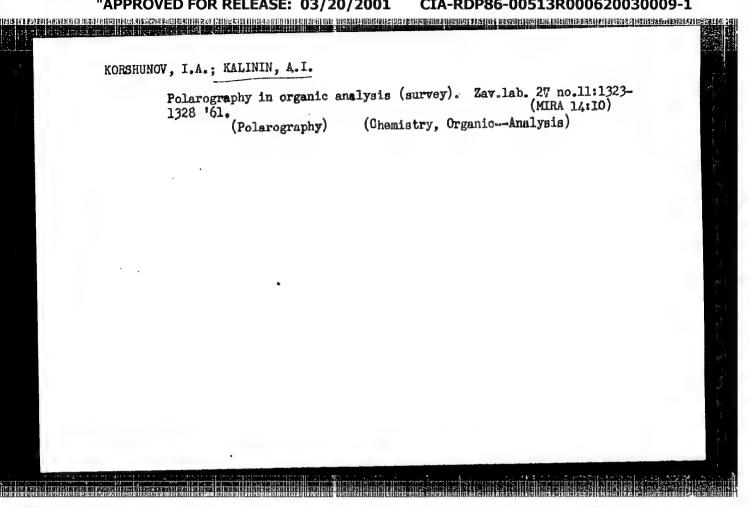
100	KALININ, A.I.
	Rapid traction test of tractors. Avt. 1 trakt. prom. no.5:31-33 My 57.
	1. Nauchne-issledevatel skiy avtotraktornyy institut. (TractersTesting) (Dynamemeter)

RALIMIH, A. I.

EALININ, A. I. "Variations in intra-eye pressure in blood donors after having given blood", Trudy Smol. gos. med. in-ta, Vol. II, 1948, p. 208-89.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1947).





CRECHEV, M.A., kand. ekon. nauk; KLESTET, O.G., kand.ekon. nauk;

TARASOV, K.S., kand. ekon. nauk; DANILEVICH, M.V.,

doktor ekon. nauk; YURLOV, A.F., kand.ekon. nauk;

ONUFRIYEV, Yu.G.; ROMANOVA, Z.I., kand. ekon. nauk;

SHEREMET YEV, I.K., kand. ekon. nauk; SHUL COVSKIY,

A.F., kand. istor. nauk; KALININ, A.I., kand. iurid. nauk;

AVARINA, V.Ya., doktor ekon. nauk, red.; BAYKOV, V.S., red.;

KOVALEV, A.P., red.izd-va; KASHINA, P.S., tekhn. red.

[Econonomic problems of Latin American countries] Ekonomicheskie problemy stran Latinskoi Ameriki. Moskva, Izd-vo AN SSSR, 1963. 511 p. (MIRA 17:1)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy.

5 (3) AUTHORS:

SOV/79-29-4-69/77 Korshunov, I. A., Vodzinskiy, Yu. V.

Vyazankin, N. S., Kalinin, A. I. (Yor kin)

TITLE:

The Reduction of the Derivatives of the α , β -Unsaturated Acids on the Mercury Drop Cathode (Vosstanovleniye na rtutnom kapel'-

nom katode proizvodnykh α, β-nenasyshchennykh kislot).

I) Derivatives of the Fumaric Acid (I. Proizvodnyye fumarovoy

kisloty)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1364 - 1370

(USSR)

ABSTRACT:

The problem of the influence of the structure of organic compounds on their reducibility on the mercury drop cathode was often discussed in the publications, the views were, however, conflicting (e. g. Refs 1,2). As far as the reactivity of the molecule is determined by the nature of its atoms and the character of the bonds between the atoms, by its polarity and polarization capacity as well as by other factors, it is obvious that only an investigation of all these factors may yield a judgment concerning the easiness of its reduction. Since the problem of the influence of the structure of organic compounds

Card 1/3

The Reduction of the Derivatives of the α , β -Unsaturated SOV/79-29-4-69/77 Acids on the Mercury Drop Cathode.

I) Derivatives of the Fumaric Acid

on the reducibility is important the authors considered it to be natural to determine the dependence of the half cycle potential of the reduction on the conjugation character in the α , β --unsaturated acids and its derivatives. For this purpose the polarographic reduction of a series of derivatives of fumaric acid was investigated. Many authors (Refs 3-5) dealt with the reduction of the fumaric- and maleinic acid, their esters and salts on the mercury cathode. These authors determined the potential values and the number of the electrons taking part in the reduction. The data of M. I. Bobrova and A. N. Matveyeva (Ref 6) concerning the reduction of dinitrile of fumaric acid at the mercury drop cathode did not agree with those of the authors, since the authors had no pure products. Hitherto unknown derivatives of the fumaric acid were obtained and characterized: amide, dimethyl amide, diethyl amide, dibutyl amide, diphenyl amide, and the nitrile of β -carbethoxyacrylic acid. The dimethyl- and monoethyl ester, the diamide and dimitrile of fumaric acid as well as the given derivatives of β -carbethoxyacrylic acid were subjected to a polarographic investiga-

Card 2/3

i e la maccinicación describidad de la composición de la composición de la composición de la composición de la

The Reduction of the Derivatives of the α , β -Unsaturated SOV/79-29-4-69/77 Acids on the Mercury Drop Cathode.

I) Derivatives of the Fumaric Acid

tion. Ease of reduction diminishes in the series: diphenyl amide amide amide amide anide amide anide amide amide

ASSOCIATION:

Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete (Scientific Research Institute of

Chemistry of Gor'kiy State University)

SUBMITTED:

January 24, 1958

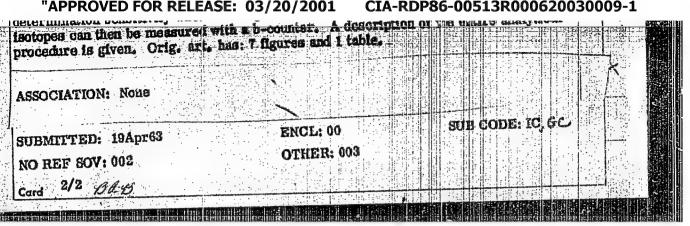
Card 3/3

ENG(j)/ENT(m)/EPF(c)/ENG(m)/EPR/ENP(t)/ENP(H) Pr-4/Pg-4/Peb RNH/JD/GS/RM UR/0000/65/000/000/0161/0167 ACCESSION NR: AT5013651 543.53:546.284 AUTHOR: Kalinin, A. I.: Kumetsov, R. A.: Moiseyev, V. V.: Teeputnek, V. E. TITLE: Radioactivation analysis of silicon dioxide by means of ion exchange chromatography. Part 1. Group separation of microimpurities followed by Gamma spectiometric determinafon. SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimit. Radiokhimicheskiye metody opredeleniya mikroelementov (Radiochemical methoda for determining trace alements); sbornik statey. Moscow, Izd-vo Nauka, 1965, 161-167 TOPIC TAGS: column chromatography, radioactivation analysis, silica analysis, Gamma spectroscopy ABSTRACT: The authors propose a method for the rapid chromatographic separation of elements activated by activation analysis into groups; this is followed by a v-spectrometric analysis of the isolated fractions. The method was applied to the radio ectivation determina-tion of trace impurities in silicon dioxide of high purity. Resins AV-17 and KU-2 were used for the separation. The following elements were determined: E, N.I., Rb, Cs, Ca; Sr, Ea, Cu, Co, Ga, Zn, In, Cd, Sb, Ta, Mo, Sn, As, P, W, NI, Cr, Au. The method has several 1/2

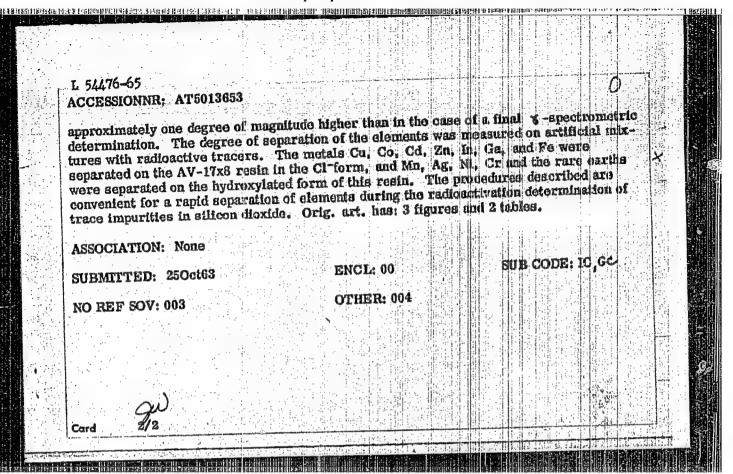
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ACCESSION NR: AT5013651

advantages: (1) the separation is made in small volumes (0.1-0.5 ml) and with small chromatographic columns, so that the duration of the analysis is considerably reduced; (2) since the final determination is \(\chi^{-}\) spectrometric, no thorough radicchemical purification of the separated fractions is required; (3) the method permits the determination of a large number of elements as compared to the \(\chi^{-}\) spectrometric method involving so decomposition of the sample; the elements in the separated groups are selected in such a way that the interfering influence of some radioisotopes on others is eliminated during the recording of interfering influence of some radioisotopes on others is eliminated during the recording of



EWG(1)/EWT(m)/EPF(c)/EWG(m)/EPR/EWP(t)/EWP(b) DIAAR UR/0000/65/000/000/0171/0176 543.63 + 66.074.546.284 AUTHOR: Kalinin, A. I.; Kuznetsov, R. A.; Moiseyev, V. V. TITLE: Radioactivation analysis of silicon dioxide by means of ton exchange chromato graphy. Part 3. Separation of elements on an anion exchanger in the Cir and Oli forms SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimili. Radiokhimicheskiye metody opredeleniya mikroelementov (Radiochemical methods for determining trace elements); sbornik statey. Moscow, Izd-vo Nauka, 1965, 171-176 TOPIC TAGS: column chromatography, anion exchange resin, rulidactivation analysis, silica analysis, gamma spectroscopy ABSTRACT: Considering the limitations of a final &-spectrophotometric determination, the authors propose a procedure for the chromatographic separation of two groups of elements into the individual elements, followed by measurement of the activity of these elements with an end-window counter. The two groups include (1) Co., Cu., In, Fe, Ga, Zn, Cd, and (2) Mn, Ag, Ni, Cr, and the rare earths. The separation is performed in the same columns which were used previously to separate these groups of elements in the course of the group separation of trace impurities. The sensitivity of the determination is Card 1/2



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WARPENKO, V.L.; Kalinin, A.L., inzhener.

Use of pipe condensers for cooling hydrogen used in moisture extraction, Masl. -zhir.prom 19 no.2:36-38 '54. (MLRA 7:4)

1. Zaporoshekiy shirkombinat. (Hydrogenation) (Refrigeration and refrigerating mashinery)

KAMINSKIY, N.A., ingh.; ARUTYUNYAN, N.S., ingh.; KALINIH, A.I., ingh.

Neutralization of fats and oils in a water-alkali medium. Masl.zhir.prom. 26 no.12:16-18 D *60. (MIRA 13:12)

1. Zaporozhskiy maslozhirovoy kombinat.
(Oils and fats)

KAMINSKIY, N.A., kand.tekhn.nauk; ARUTYUNYAN, N.S., inzh.; KALININ, A.I., inzh.; KOZDOBA, A.A., inzh.; IMITRIYEVA, N.A., inzh. YUDINA. T.N., inzh.

Neutralization of fats and oils in an alkali in neutralization chambers. Masl. - zhir. prom. 27 no.12:37-40 D '61. (MIRA 14:12)

 Zaporozhskiy maslozhirovoy kombinat. (Oils and fats)

KAMINSKIY, N.A., kand.tekhn.nauk; ARUTYUNYAN, N.S., inzh.;

KALININ, A.I., inzh.; KOZDORA, A.A., inzh.;

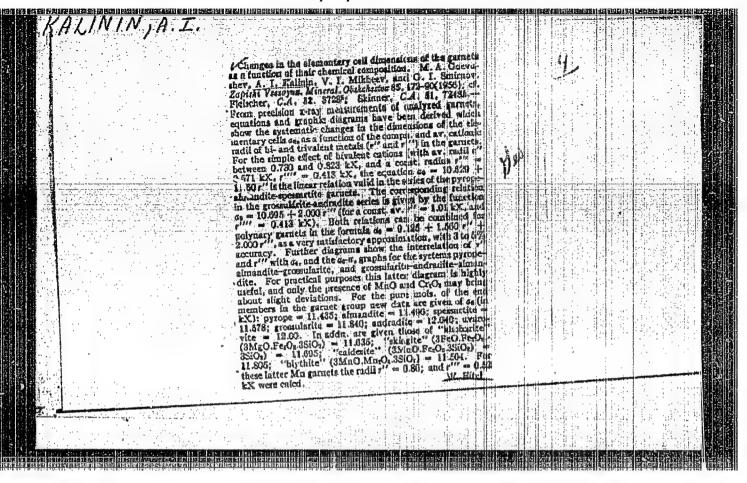
DMITRIYEVA, N.A., inzh.; YUDINA, T.N., inzh.

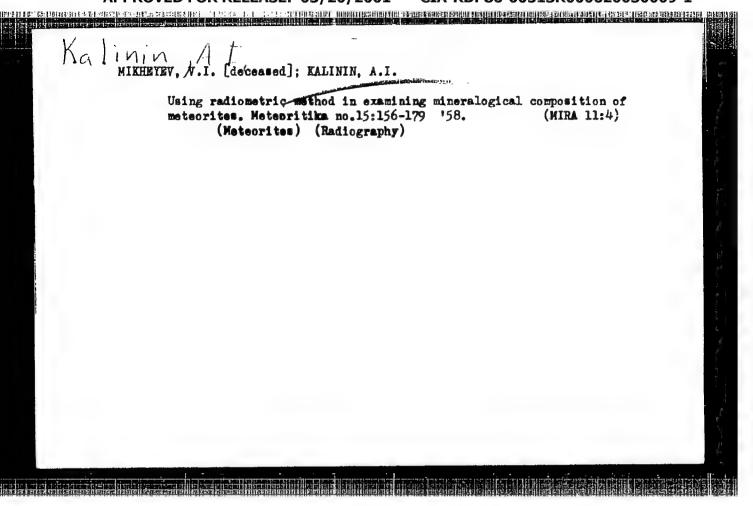
Neutralization of fats and oils in an alkaline medium.

Masl.-zhir.prom. 28 no.7:13-14, J1 '62. (MIRA 15:11)

1. Zaporozhskiy maslozhirovoy kombinat.

(Oils and fats)





SHAFRANOVSKIY, I.I., prof. Prinimeli uchaetiye: MOKIYEVSKIY, V.A.; STULOV, N.N.; GENDELEV, S.Sh.; PIS'MENNYY, V.A.; BALASHOVA, M.N.; MIKHEYEVA, I.V.; SAL'DAU, E.P.; KALININ, A.I.; DOLIVO-DOHROVCK'SKAYA, G.M. PIOTROVSKIY, G.L., dotsent, otv.red.; FURMAN, K.P., red.; MALYAVKO, A.V., tekhred.

DE LA GREGORIA DE CONTRA DE CONTRA LA CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DELIGIA DE LA CONTRA DELIGIA DE LA CONTRA DE LA CONTRA DE LA CONTRA DELIGIA DELIGIA DE LA CONTRA DELIGIA DELIGIA

[Lectures on the morphology of mineral crystals] Lektsii po kristallomorfologii mineralov. Letvov, Izd-vo Letvovskogo univ., 1960. 161 p. (MIRA 14:1)

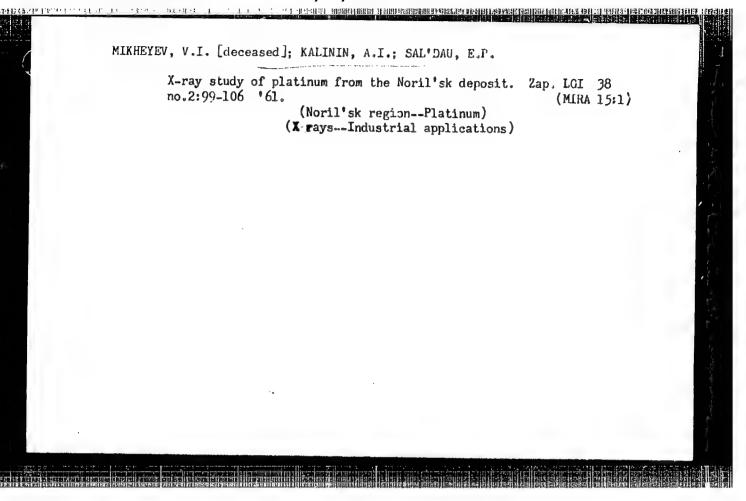
1. Kafedra kristallografii Leningradskogo gornogo instituta (for Mokiyevskiy, Stulov, Gendelev, Pis'mennyy, Balashova, Mikheyeva, Sal'dau, Kalinin, Dolivo-Dobrovol'skaya).

(Kinerals) (Crystals)

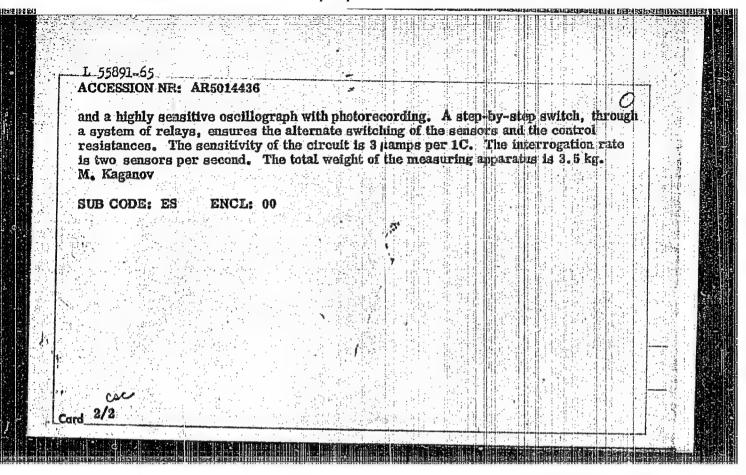
MIKHEYEV, V.I. [deceased]; KALININ, A.I.

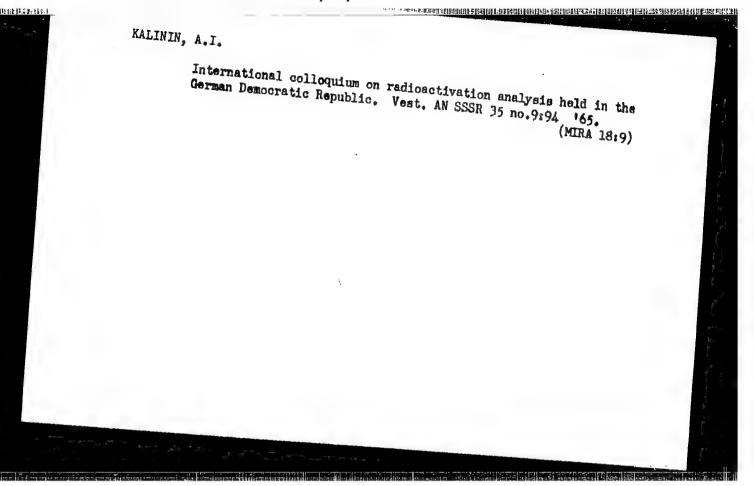
Correlation of the magnetic properties, the specific weight, and the parameters of the elementary cell of ilmenites, Zap. LGI 38 no.2: 73-98 '61.

(Ilmenite)



L 55891-65 ENT(1)/FCC GW ACCESSION NR: AR5014436 UR/0169/65/000/005/B010/B010 551.508.2 SOURCE: Ref. zh. Geofizika. Abs. 5B81 AUTHOR: Avdeyev, A.I.; Fridzon, M.B.; Kalinin, A.I. TITLE: Some methods and results of experimental investigations of sensors of meteorological elements CITED SOURCE: Ref. zh. Geofizika, Abs. 5B81 TOPIC TAGS: meteorological instrument, thermometer design, resignance thermometer radiation error, atmospheric temperature TRANSLATION: Platinum resistance thermometers of both framework and openwork types have been developed. The thermometer is designed for ballon sounding of the atmosphere. It is manufactured from platinum wire 0.03-0.05 mm in diameter. The sensing element is attached by a capron filament to a silvered steel frame constructed of wire 2 mm in diameter. Tests have shown that at a height of about 3,000 m the radiation error has a value of about 0.3-0.4C and the thermal inertia is 0.2 sec. The thermometer readings are recorded by a measuring instrument, the basis of which is a bridge circuit





PAL'MOV, Ye.V., prof., doktor tekhn.nauk; KALININ, A.I., inzh.; KOISHUNOV, Ye.A., assistent; MAIMOV, N.I., assistent; PETHOV, I.N., assistent

Experimental investigation of the No. 1 shears of the No. 3 blooming mill at the Magnitogorsk Metallurgical Combine. Trudy Ural.politekh. inst. no.101:21-32 160. (MIRA 14:3)

(Rolling mills) (Shears (Machine tools))

PAL'MOV, Ye. V., doktor tekhn. nauk, prof.; BAIMOV, N. I., kand. tekhn. nauk, assistent; KORSHUNOV, Ye. A., kand. tekhn. nauk, assistent; PETROV, I. N., kand. tekhn. nauk, assistent; KALININ, A. I., inzh.

Developing and investigating new conditions of cutting with the shears of blooming mill No. 3 at the Magnitogorsk Metallurgical Combine. Trudy Ural. politekh. inst. no.119:22-27 162.

(MIRA 162)

(Magnitogorsk-Rolling mills) (Shears(Machine tools))

KALININ, A.I., inzh.

Conditions of cutting hot blanks with blooming mill shears. Met. i gornorud. prom. no.6:59-61 N-D '62. (MIRA 17:8)

1. Nizhnetagil'skiy metallurgicheskiy kombinat.

SHALAYEV, Viktor Vasil'yevich; KALININ, Aleksandr Ivanovich; KOLBIN,
Anatoliy Ivanovich; MEREKIN, Boris Vasil'yevich; FEYGIN,
Geshel' Davidovich; VINOKUROV, Izrail Yakovlevich; SKAKUN,
Vladimir Vasil'yevich; KAPUSTIN, Arkadiy Ivanovich;
MOGILEVSKIY, David Markovich; ALEKSEYEVA, Tat'yana Alekseyevna;
BABAYLOV, Finopent Ivanovich; SKRYABIN, N.P., red.; KRYZHOVA,
M.L., red.izd-va; KOROL', V.P., tekhn. red.

[Improving procedures and equipment in shape rolling mills]
Sovershenstvovanie tekhnologii i oborudovaniia v sortoprokatnom tsekhe. Sverdlovsk, Metallurgizdat, 1963. 163 p.

(MIRA 16:1)

(Rolling (Metalwork))—Equipment and supplies)

FREYDENZON, Ye.Z.; KALININ, A.I.

Rebirth of a blocming mill. Metallurg 8 no.2:27-30 F '63.
(MIRA 16:2)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.
(Rolling mills)

MAKAYEV, S.V., kand.tekhn.nauk; STAROSELETSKIY, M.I., inzh.; KALININ, A.I., inzh.

Reorganization of the blooming mill at the Nizhniy Tagil
Metallurgical Combine. Stal' 23 no.9:816-819 S '63.

(MIRA 16:10)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.

TSERKOVNITSKAYA, I.A., KALININ, A.I., MORACHEVSKIY, Yu.V.

Amperometric titration of gallium with a cupferron solution. Zav.lab. 26 no.7:797 *60. (MIRA 13:7)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.

(Gallium-Analysis)

KALININ, A. I., KUDZETSOV, R. A., MOISTEYEV, V. V., and MURIN, A. N.

"Determination of tracer elements in silicon dioxide through activation analysis by means of using ion-exchange chromatography"

and the state of t

report to be submitted for the Intl. Symposium on Pure Substances in Science and Technology, E. German Chem. Society, Dresden, E. Germany 30 Nov. - 2 Dec. 1961

S/020/61/141/001/011/021 B103/B147

AUTHORS: Kalinin, A. I., Kuznetsov, R. A., Moiseyev, V. V., and Murin,

A. N.

TITLE: Use of ion exchange chromatography for the activation

analysis of microimpurities in silica

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 1, 1961, 98 - 100

TEXT: The authors state that the two usual methods of determining micro-impurities in highly pure substances (in this case SiO₂) have several

shortcomings. Therefore, they used ion exchange chromatography for separating activated impurities in SiO₂. Advantages of this method over

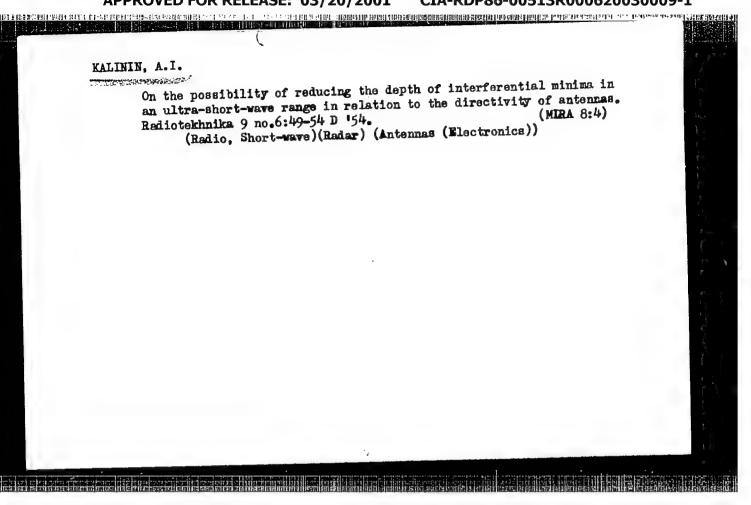
the usual analytical methods: the elements to be determined can be quickly and reliably isolated in radiochemically pure state from a complex mixture. A quantitative separation is achieved by choosing the proper absorption and elution conditions in ionites. The use of microcolumns (diameter 2 mm) accelerates the separation of microquantities and saves reagents. The amounts of the elements to be separated were determined from the

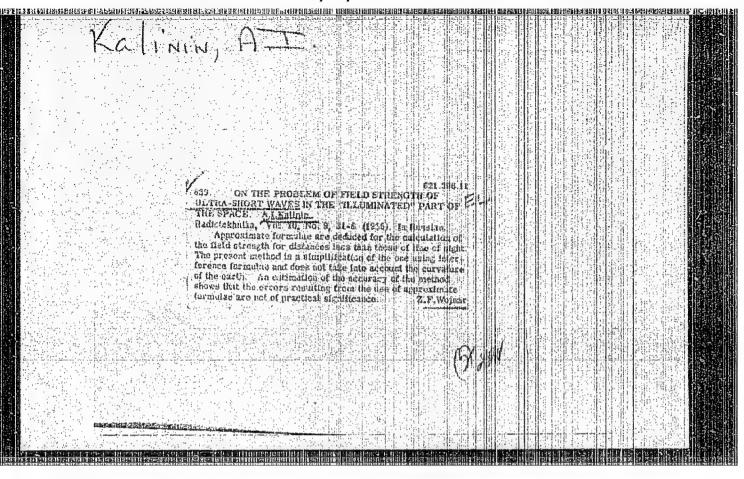
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S/020/61/141/001/011/021. B103/B147

Use of ion exchange chromatography...

gold only with thiourea. The mixture of elements which were not absorbed in the HF medium is evaporated several times together with HCl and introduced in 90 mm long columns with AV-17 anionite in Cl form. Elements forming negative chloride complexes are absorbed: CuII, CoII, InIII, CaI, ZnII, CdII, and HgII. Differently strong HCl is primarily used as eluant. To improve the separation of Co from Cu, these elements are eluted immediately after removing the non-absorbed elements with 4 N HCl. Next, indium is eluted with 11.6 N HCl. Fe is eluted together with gallium. Iron irradiated for a short time does not disturb the Ga determination. If necessary, Ga and Fe are separated on a cationite. The entire separation cycle for determining microimpurities in SiO took about 4 hr (without the time necessary for decomposing the sample). The radiochemical purity of the elements isolated was checked by prespectrophotometry and determination of the half-life period. The study was suggested by Yu. V. Morachevskiy. There are 3 figures, 1 table, and 5 references: 3 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: J. P. Faris, Anal. Chem. 32, No. 4, 520 (1960); K. A. Kraus, F. Nelson, Am. Soc. Testing Materials, Spec. Techn. Card 3/4

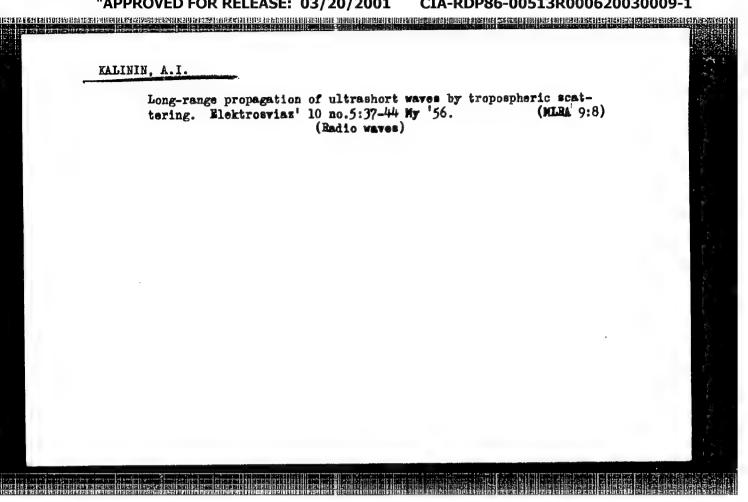




BORODICH, S.V.; KALININ, A.I.; FORTUSHENKO, A.D., otvetstvennyy redaktor; GRIGOR'YEV, B.S., redaktor; VEYNTRAUB, A.B., tekhnicheskiy redaktor [Handbook for electrocommunications engineering] Inzhenernotekhnicheskii spravochnik po elektrosviazi. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio. Vol. 7. [Radio relay systems] (HIRA 9:9) Radioreleinye linii. 1956. 172 p. 1. Russia (1923- U.S.S.R.) Ministerstvo svyazi. (Radio relay systems)

> CIA-RDP86-00513R000620030009-1" APPROVED FOR RELEASE: 03/20/2001

THE PROPERTY OF THE PROPERTY O KALININ, A. (st.Golitsyno, Moskovskoy oblasti) Alteration of the power pack of the "Moskvich" radio receiver. (MIRA 9:9) Radio no.7:63 J1 156. (Radio -- Receivers and reception)



CIA-RDP86-00513R000620030009-1" APPROVED FOR RELEASE: 03/20/2001

AID P - 4910

Subject

: USSR/Electronics

card 1/2

Pub. 90 - 4/10

Author

: Kalinin, A. I.

Title

: Computation of field strength in shadow and semi-shadow regions during the propagation of ultrashort waves along

the smooth spherical surface of the earth.

Periodical

Radiotekhnika, // 6, 43-49, Je 1956

Abstract

The author briefly reviews the methods used in computing field strength of ultrashort waves along the smooth spherical surface of the earth. For the illuminated regions and for distances well beyond the optical range, the diffraction formula is used. Only one term is necessary to give the accuracy usually needed. For distances within optical range the curved-earth theory is applicable. For the shadow and semi-shadow regions computations become more complicated. For semi-shadow regions in particular graphical interpolation methods were used. The author

KALININ, A. I.

PROPAGATION

"Choice of Routes for Sections of Radio Relay Lines", by A.I. Kalinin, Elektrosvyaz', No 9, September 1957, pp 20-29.

The choice of routes for maximum line stability is considered. Formulas are given for the minimum heights of antenna towers and for the maximum lengths of line section. The effect of the terrain of the locality and of the statistical distribution of the vertical gradient of the dielectric constant of air are taken into account.

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KALININ, Anatoliy Ivanovich

"The Coherent Theory of UEF Long Distance Tropospheric Propagation,"

paper presented at the Conference on Propagation of Very Short Waves in Prague (Liblice) 10-12 Hovember 1958.

CHERENKOVA, Yelena Lezarevna; KALININ, A.I., otvetstvennyy red.; BASHCHUK, V.I., red.; KARABILOVA, S.F., tekhn. red.

[Long distance propagation of ultrashort waves] Bal'nee rasprostranenie ul'trakorotkikh voln. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1958. 40 p. (MIRA 11:9) (Radio, Shortwave--Transmitters and transmission)

AUTHOR:

Kalinin, A. I.,

Member of the Society

108-1-2/10

TITLE:

On the Stability of the Field Strength in the Intervals of Radio-Relay Systems (Ob ustoychivosti napryazhennosti

polya na intervalakh radioreleynykh limiy)

PERIODICAL:

Radiotekhnika, 1958, Vol. 13, Nr 1, pp. 22-28 (USSR)

ABSTRACT:

The construction method for field strength stability curves is given. This construction is carried out according to the known dependence of the attenuation factor in the interval of the system on the vertical gradients of the dielectric permeability of the atmosphere and according to the

statistical distribution of the values of this gradient for those climatic conditions where the interval of the system

is located. The field strength stability curves can be constructed as follows: the diagram of the dependence of the

attenuation factor on the vertical gradient of the dielectric atmospherio-permerbility is coordinated with a diagram of the statistical distribution of this gradient

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in such a way that the values of the tradient at the abscissa of the first diagram coincide with the corresponding values

On the Stability of the Field Strength in the Intervals of 108-1-2/10 Radio-Relay Systems

of the gradient at the ordinate of the second diagram.-Because of the complicated character and the multi foldcharacter of the meteorologic processes which are the cause for the changes of the field strongth in the system intervals, the problem of the correlation between these changes can be solved only by means of special experiments. Without such experiments only the following can be said qualitatively: In intervals of radio-relay systems quick, deer fadings of interference character dependent on the reflection or the dispersion of radiowaves by the heterogeneities of the troposphere can be regarded as independent phenomena because of the disordered character of such fadings even in two neighbouring intervals. The relatively slow changes of the field strength in the intervals of the radio relay systems are dependent on the changes of the vertical gradient of the dielectric atmospheric - permeability, which again are caused by the changes of the meteorological conditions in that area. As meteorological conditions of the same kind can be observed within rather vast areas the changes of field strength, which are dependent on the changes of the vertical

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On the Stability of the Field Strength in the Intervals of 108-1-2/10 Radio-Relay Systems

gradient of the dielectric atmospheric permeability, can not be regarded as independent phenomena. Formula (7) is deduced. The field strength stability curves determined by this formula are of an optimum character. This is to be understood in the sense that with a given interval length and a given value V₀ (value of the factor of attenuation in decibel with a slit equal to zero) for every time percent the fading depth will be the least. In order to picture this optimum field strength, curves for lines of different length for the central part of the European part of the USSR are constructed. In ref. 2 the statistical data for the values of the vertical gradient of the dielectric atmospheric-permeability are given, and they are used here. There are 8 figures, 1 table, and 3 references, 3 of which are Slavic

SUBMITTED:

April 9, 1956

AVAILABLE:

Library of Congress

Card 3/3

1. Radio relay systems 2. Field strength stability-Theory

AUTHOR:

Kalinin, A.I.

SOV/106-59-6-6/14

TITLE:

DI TATARAN KANCAMITAN MINISTRAN KANCAMITAN MERANGKAN MENUNGKAN BANDAN MENUNGKAN MENUNGK MENUNGKAN MENUNGKA

A Coherent Theory of Long-Distance Tropospheric Propagation of Ultra-Short Waves (Kogerentnaya teoriya dal'nego troposfernogo rasprostraneniya ul'trakorotkikn

voln)

PERIODICAL: Elektrosvyaz', 1959, Nr 6, pp 41-49 (USSR)

ABSTRACT: Most works on tropospheric propagation assume either that the field at the receiver is due to incoherent dispersion by irregularities in the dielectric permittivity of the air, or that the field is the combination of waves having random amplitude and phase after reflection from layered tropospheric irregularities. The author advances a theory based on the hypothesis of

coherent reflections from lamellar tropospheric

irregularities and an exponential relationship between the dielectric permittivity and the height of the layer above the surface of the earth. Assumptions concerning turbulent air movement are not necessary and the results

agree reasonably well with the experimental data. Although the relationship between the dielectric Card 1/6

permittivity & and the height z above the earth's surface has a complicated random nature, nevertheless,

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A Coherent Theory of Long-Distance Tropospheric Propagation of Ultra-Short Waves

the mean value of the permittivity is given approximately by the formula

$$\varepsilon(z) = 1 + \Delta \varepsilon_0 \exp\left(-\frac{g}{\Delta \varepsilon_0} z\right) \tag{1}$$

where $\Delta \epsilon_0$ is the deviation of ϵ from unity at the earth's surface and g < 0 is a constant representing the vertical gradient of the dielectric permittivity of the air at the earth's surface with positive refraction. It is assumed that ϵ is a function of z only and therefore surfaces having equal values of ϵ will form spherical surfaces concentric with the earth's surface. The troposphere is divided into thin layers of thickness Δz (Fig 2), and the value of $\epsilon(z)$ in each layer is assumed constant. At the boundaries the permittivity suffers a step change of $\Delta \epsilon$ where

$$\Delta \varepsilon = g \exp \left(\frac{g}{\Delta \varepsilon_{o}} z\right) \Delta z$$
 (2)

Card 2/6 The layers are numbered 1,2,3,.... and the first layer is taken at the height zo corresponding to the point of

SOV/106-59-6-6/14 A Coherent Theory of Long-Distance Tropospheric Propagation of Ultra-Short Waves

intersection of the tangents to the earth's surface from the transmitter and receiver points A and B (Fig 2). At the receiver, at any time instant, there will be an interference pattern of waves reflected from the boundary layers. The resulting field strength at the receiver will be $E_{\!m}$.

$$\mathbf{E}_{m} = \left[\left(\sum_{i=1}^{\infty} \mathbf{E}_{mi\cos \gamma_{i}} \right)^{2} + \left(\sum_{i=1}^{\infty} \mathbf{E}_{mi\sin \gamma_{i}} \right)^{2} \right]^{\frac{1}{2}}$$
(3)

where **E**mi and γ_i are the amplitude and phase respectively of the wave reflected from the ith boundary between the layers. To determine the field strength the fields from all the boundary reflections are summated. The author first determines the amplitude and phase (Eqs (11) and (12)) of the wave reflected from the ith boundary. It is assumed that the transmitter and receiver points are at equal heights above the earth's surface and the antennae are identical. The direction of maximum radiation is assumed to coincide with the tangents from the transmitter and receiver points to the

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A Coherent Theory of Long-Distance Tropospheric Propagation of Ultra-Short Waves

earth surface. Changing the variable z to y, where y is the height above the lowest layer, and letting $\Delta_{\mathbb{Z}} \rightarrow 0$, an integral expression is obtained for the reflections from the upper semi-space and for the reduction factor V (Eq (22)). The theoretical results are compared with published experimental results: 1) Eq (22) shows the reduction factor proportional to wavelength λ . This is supported by the conclusions of Staras and Weelon (Ref 3). 2) The theoretical values of $V_{h=0} = f(R)$ (R and h as shown in Fig 2) are given in Fig 3 by the full lines for $\lambda=300$, 30 and 10 cm and mean values of $\Delta \epsilon_0 = 7 \times 10^{-4}$, $g = -8 \times 10^{-3}$ l/m. The dotted curves show comparable experimental data from Ref 2, indicating reasonable agreement, 3) When the distance R reduces to the range of the line-of-sight, the theoretical formulae become erroneous, but under these conditions the defraction field predominates, and the error is of no consequence. 4) Many experimental works refer to the correlation between the mean level of the field and the values of g and $\Delta \epsilon_0$. This dependence

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A Coherent Theory of Long-Distance Tropospheric Propagation of Ultra-Short Waves

is clearly expressed in Eq (22). 5) The values of and $\Delta \epsilon_0$ depend on the climatic conditions, and hence Eq (22) accounts for the seasonal variation in the reduction factor V . The rapid interference fading of signals is explained by random fluctuations in the value of & relative to the exponential function of the mean value $\varepsilon(z)$. relation between the signal level and the angle of elevation above the horizontal plane is determined (Eq (25)). Theoretical and experimental results from the work of Chisholm et al are compared in Fig 4, showing reasonable agreement. The bandwidth of a four-terminal network equivalent to the troposphere is determined (Eq (35)) and the effects of the directivity of the antennae discussed. It is concluded that the geometricoptical method employed shows that all fundamental experimental data on tropospheric propagation can be explained quantitatively and qualitatively by reflections from the semi-space with an exponential dependence $\varepsilon(z)$.

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A Coherent Theory of Long-Distance Tropospheric Propagation of Ultra-Short Waves

Although the results obtained are only approximate, the author considers that they form the basis for an attempt at a strict electrodynamic solution using the

exponential law. The author expresses thanks to Acad. B.A. Vvedenskiy.
There are 4 figures and 6 references, 5 cf which are English and 1 Soviet. Card 6/6

September 18, 1958 SUBMITTED:

KALININ, A. I., KOLOSOV, M. A., SHABELNIKOV, A. V., SHIRAY, R. A., SOKOLOV, A. V., VVEDENSKIY, B. A. and ARMAND, N. A.

"Long Range Tropospheric Propagation of Ultra Short Radio Waves."

report presented at Commission II, 13th General Assembly of the International Scientific Radio Union in London, 5-15 Sept 1960.

Report available, Encl. to B-3,176,875, 30 Jan 61

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000620030009-1"

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Kalinin, A.I.

TITLE:

The Long-Distance Tropospheric Propagation of Ultrashort Waves

PERIODICAL: Elektrosvyaz', 1960, No. 6, pp. 39 - 49

The author discusses the basic results of an experimental study of the long-distance tropospheric propagation of ultrashort waves. The theoretical TEXT: discussion of these results will be given in a subsequent paper. The author reviews the history of the discovery of the tropospheric propagation of ultrashort waves. This long-distance propagation cannot be explained by the existing diffraction theory. It is assumed that ultrashort waves are reflected from nonuniformities in the troposphere having different dielectric constants. These nonuniformities of the air layers are caused by thermal effects. Recordings of the signal level during long-distance tropospheric propagation of ultrashort waves show very rapid signal fadings (fluctuations) on the receiver side, with periods of a fraction of a second. These fadings are caused by the multitude of waves arriving at the receiver after having been reradiated from moving nonuniformities in the atmosphere. Based on geometric considerations, it is not difficult

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The Long-Distance Tropospheric Propagation of Ultrashort Waves

to establish that the rate of wave-phase changes is greater over longer distances; consequently, the rate of fadings must increase with the distance. Slow changes of the signal level have periods of several hours and are caused by changes in the meteorological conditions in the troposphere. The diurnal course of the mean hourly values of the signal level is weakly pronounced and does not have any definite laws. The seasonal changes of the signal level are more pronounced. The mean monthly averages of the signal level are considerably higher in summer than during winter. The difference is of the order of 12 - 25 dB. Additional investigations are required concerning the dependence of the signal level on the distance and the wavelength, since the available data are incomplete in this respect. Experiments showed that the signal level is at a maximum during long-distance tropospheric propagation of ultrashort waves, if the maxima of the directivity patterns of the transmitter and the receiver antenna are oriented in the horizontal plane along the arc of the great circle passing through the transmission and reception points, and in the vertical plane in the direction of the horizon. The signal level will decrease, if the maxima of the directivity patterns will deviate from the aforementioned directions. The signal level hard-

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The Long-Distance Tropospheric Propagation of Ultrashort Waves

ly depends on the height of the antenna elevation above ground, and considerably less than in the propagation due to diffraction along the earth's surface. Simultaneous measurements during long distance tropospheric propagation showed that the mean signal level does not depend on the type of polarization. The signal fading in antennas having different polarizations proceeds practically synchronously. Consequently, doubled reception with antennas of different polarizations will not result in a noticeable advantage in reducing the depth of fading. Some depolarization of radio waves occurs in the long-distance tropospheric propagation of ultrashort waves. Signal distortions are caused by the arrival of a multitude of waves having paths of various lengths, arriving for this reason at different moments at the receiver. This difference in the time of arrival can cause additional noise in multi-channel telephone communication with frequency condensation. The signal distortions will be greater, the greater the difference is in the time of arrival of different waves. The random character of the reradiation of electromagnetic energy permits only a statistical determination of the distortions to be made. The presence of a correlation between the mean values of the signal level and ϵ_{o} , the dielectric constant of the air near

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